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Woodchuck chipper parts manual

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The kits include: * In-Frame Kit: Sleeve and piston assembly ($741.91-$802.07) * Out-of-Frame Kit: Camshaft and tappets ($947.96-$1,024.82) * Camshaft Kit: Camshaft and tappets ($372.81-$403.04) * Valve Train Kit: Intake valves, exhaust valves, guides, springs, and rotators ($194.39-$210.15) Individual parts include: * Exhaust Valve Seal (Brown): $3.70-$4.00 * Head Gasket Set: $205.07-$221.70 * Intake Valve Seal (Green): $3.70-$4.00 * Lower Gasket Set without Seals: $59.32-$64.13 * Rear Crank Seal (Housing With Integral Seal): $36.12-$39.05 * Valve Cover Gasket: $8.13-$8.79 * Pan Gasket (Steel Pan): $16.62-$17.97 * Pan Gasket Set (Cast Pan/Includes 6 Flange Gaskets): $18.09-$19.56 Piston assemblies and rings are also available, including: * 0.50 MM Piston Assembly: $94.97-$102.67 * 1.00 MM Piston Assembly: $97.39-$105.29 * Standard Piston Assembly: $98.91-$106.94 Exhaust guides, seats, and valves are also listed, including: * Exhaust Guide: $3.80-$4.11 * Exhaust Seat (1.737" OD): $27.34-$29.55 * Exhaust Valve (45 Degree / 42.0MM Head Diameter): $15.44-$16.70 Intake seats are also available, including: * Intake Seat (1.895" OD): $27.34-$29.55 $33.54 Intake Valve (45 Degree / 45.0MM Head Diameter)**(Order a Quantity of 4 for complete engine applica.. $13.86 $14.99 Keeper (Half)**(Order a Quantity of 12 (3 Cylinder) or 16 (4 Cylinder) or 24 (6 Cylinder) for compl.. $1.98 $2.14 Left Hand Rocker Arm (Adjustment Screw Not Included) (12)**(Order a Quantity of 4 (4 Cylinder) or 6.. $38.21 $41.30 Left Hand Rocker Arm, Late (No Bushing / Adjustment Screw Not Included) (12)**(Order a Quantity of .. $42.37 $45.80 Right Hand Rocker Arm (Adjustment Screw Not Included) (12)**(Order a Quantity of 4 (4 Cylinder) or .. $28.75 $31.08 Right Hand Rocker Arm, Late (No Bushing / Adjustment Screw Not Included) (12)**(Order a Quantity.. $41.02 $44.34 Rocker Arm Shaft (13) "Includes 471176 Plugs"**(Order a Quantity of 1 for complete engine applicati.. $302.79 $327.33 Rocker Arm Shaft, Late Design (13) "Includes 471176 Plugs"**(Order a Quantity of 1 for complete eng.. $435.99 $471.33 Valve Guide**(Order a Quantity of ? (Click engine info below for details) for complete engine appli.. $2.24 $2.42 Valve Spring (1.720" Free Length)**(Order a Quantity of 8 for complete engine application)** Choos.. $5.16 $5.58 Section 1: This manual's introduction gives a brief overview of the industry terms and phrases used in Altec manuals. The term "unit" is used to describe the Altec device, which is further explained throughout the manual. Section 2: This section focuses on the specifications of the unit, particularly the towable frame assembly, and its purpose. It highlights key components like the chipper mechanism, which is belt-driven by a self-contained engine. The unit is designed to reduce brush material into manageable sizes using a horizontally mounted, hydraulically controlled feed roll. Various safety features have been integrated into the design to minimize accident risk. Section 3: This section emphasizes the importance of safety protocols when working with heavy machinery like the Altec unit. It provides detailed instructions on how to properly execute a lock-out tag out procedure (LOTO) before performing any maintenance or operating the chipper. The manual stresses that all personnel must ensure the proper operation of each safety device before starting the engine or running the chipper. Section 3: Safety Precautions - Ensure Equipment is in Good Working Order Failure to follow safety procedures can lead to equipment damage, serious injury, or death. It's crucial to check the clutch handle for free play, tighten all cap screws and nuts, and ensure the chip curtain is properly fastened before operating the chipper. Daily Preoperational Inspection: - Verify that the folding feed table is in place. - Ensure a safe distance from the tow vehicle and the chipper. - Avoid prolonged exposure to vapors emitted by the machine. - Keep face away from nozzles and fuel tanks. - Adjust the tow vehicle's brake controller correctly. Lockout Procedures: - Remove ignition keys, negative battery cable, and lock battery box. - Follow OSHA statute 1910.147 for proper lock-out procedures to avoid being trapped between moving components. Work Site Preparation: - Position the chipper in a flammable material-free area. - Avoid having personnel in the path of potentially discharged materials. - Ensure all guards are in place before operating the chipper. General Precautions: - Reduce engine speed to idle when not in use. - Use common sense and be aware of surroundings and situations. - Be cautious of airborne objects, sparks from the engine exhaust, or heat-emitted material that could start a fire. 1. Reattach cables after maintenance. 2. Regularly inspect materials before feeding into the chipper. 3. Ensure proper brush feeding technique to prevent damage (see Figure 4.5). 4. Instruct operators to handle brushes with care and release if entrapped. 5. Replace damaged or missing pusher and cable assembly. 6. Clean drum housing/chute transition and reinstall discharge chute. 7. Restart engine after maintenance. 8. Perform routine maintenance to extend chipper life (see Section 6 — Care of the Unit). 1. Proper unit maintenance is crucial to reduce downtime and lower costs. 2. Regular maintenance includes covering exposed rubber parts with ultraviolet resistant material. 3. Always replace the return line filter cartridge with a genuine Altec part. 4. Ensure the air intake system is protected from contamination. 5. Wipe off the top of the reservoir and filler breather cap after servicing. 6. Use pump grease into the grease fitting to flush out old, displaced grease. 7. Regularly check fasteners for correct torque values using the Fastener Specific Torque Application Chart. The hydraulic pump used on the DRM 12 has a standard displacement of 0.5 cubic inches (8.2 cc) per revolution, which can cause leaks if damaged or worn out. Similarly, a scratched output shaft on the gear motor can also lead to leakage issues. The type of hydraulic lines used may vary depending on the specific application, and it's crucial to ensure that the unit comes to a complete stop before performing any maintenance tasks. Proper alignment is vital, with both sheaves in contact for correct adjustment. To maintain the drum and drive system, always follow the recommended procedure and replace parts as needed. The Altec parts department can supply complete backing plate assemblies, including new shoes and magnets. When operating the chipper, it's essential to use only Altec-supplied blades to prevent damage from worn or damaged blades. Proper maintenance is crucial to avoid unnecessary risks and equipment damage. Always install new or sharpened blades with Altec-approved cap screws to ensure proper alignment. The DRM 12 features both electronic and hydraulic controls, comprising various parts that work together seamlessly. In the event of a panic bar tripping, the system will divert pump flow directly to the tank, stopping all hydraulic flow. Common issues may include unit failure or panic bar malfunction, which can be diagnosed using the provided symptom-and-test procedure tables. A hydraulic system's issue may be solved by checking if the feed roller moves when the feed control bar is in reverse position. If not, a pressure gauge should be installed. The boom has different stages: upper, intermediate (also known as 2nd stage), and lower. The articulating arm or elevator supports various structures, including an A-frame outrigger, cable stringing system, and check valve. The control station is where the unit's operation controls are located. Other terms include drain, energize, drift, flange, gripper tool, hydraulic schematic, and mercury switch. The movement of mercury in a switch is linked to the tilt of the switch, moving towards or away from the contacts as needed. A non-transferable boom flare system provides an audible warning for those nearby when outriggers are being lowered or moved on a digger derrick. The upper control panel on this machine features non-transferable controls. The design of the pinion gear allows it to mesh with a larger gear, providing stability and guidance for utility pole operations. The reel lifter device supports cable reels, allowing them to be raised or lowered from inside the vehicle to the ground. This process is facilitated by arms that can extend from the outer housing when additional length is required. A rotary joint provides a continuous hydraulic connection between rotating and stationary lines, enabling smooth operation of devices such as cal switches and motors. A single-pole, double-throw switch connects one terminal to either of two other terminals, offering flexibility in electrical connections. The Altec device, including the subbase, outriggers, body, and tow line winch, is designed for cable placement. The upper controls feature a secondary battery as a backup power source. The water monitor uses an articulating mechanism to direct high-pressure water flow. Fasteners are used throughout the system, with specific torque values required for certain applications. A glossary and fastener specifications follow, along with a daily preoperational checklist that includes vital information such as VIN number, location, date, model number, and hours meter reading. Symbols /O = Okay or completed C = Corrected by inspector R = Repair or replacement required U = Unsafe to operate N/A = Not applicable Chip curtain properly fastened and in good repair Hydraulic fluid level within 2”-3” (5.08-7.62 cm) Preoperational Checklist: VIN No., Location, Date, Model Number, Date of Manufacture, Hours Meter, Inspector, Intervals (Weekly, Monthly, Yearly) Symbols /O = Okay or completed C = Corrected by inspector R = Repair or replacement required U = Unsafe to operate N/A = Not applicable Troubleshooting Chart: Starter will not crank (weak battery), Engine overheats (radiator fins clogged, improper coolant level/mixture, damaged fan/fan belt) Altec Service Centers: Alabama, Maryland, North Texas, Altec Limited - Surrey ASSEMBLY, ROLLING HEAD AND FRAME, DRM 12: LUG NUTS (P/N 970130501) are displayed for reference only, located on the axle bill of material. The document appears to be an assembly manual or parts list for various components and systems related to a drum chipper machine. The contents are organized into sections, including: * Assembly of the feed system, hydraulic lift, and DRM 12 + This section includes descriptions and quantities of parts such as feed roller and rotor assemblies, pivot housings, bearings, and bolts. * Assembly of the feed control system, hydraulic lift, and DRM 12 (4 pages) + This section includes descriptions and quantities of parts such as feed horns, infeed tables, hinge rods, handles, and spacers. * Assembly of hand crank chute rotation and drum chipper (3 pages) + This section includes descriptions and quantities of parts such as bearings, chain drive chutes, washers, and cap screws. * Chain drive chute assembly, height adjustable, drum chipper (2 pages) + This section includes descriptions and quantities of parts such as weldments, assemblies, and bearings. Additionally, there is a separate section for the power system, which appears to be related to a Kubota diesel engine with various horsepower options. Here is the paraphrased text: The Kubota engine has different horsepower options: 67 HP, 74 HP, and 99 HP. It runs on diesel fuel and requires a tank with DRM 12 and CFD-1217 specifications. Additionally, there are various other parts needed for assembly, including a hexagonal nut, a cap screw, and an ovalized steel plate. For the power system, GM has recommended a gasoline-powered engine with a horsepower of 89 HP. It also requires a specific DRM12 and CFD1217 configuration. The assembly process should prioritize hose bend radii to avoid sharp edges. The kit includes auxiliary belt drive, hydraulic pump, DC1317, and a cap screw with hex head and plated finish. Final assembly is required for the DRM12 system, which consists of four pages. Other necessary parts include a break-away switch, light bracket, reservoir, placard, rivet, hose assembly, sensor, electrical harness, washer, nut, hydraulic tank spring, drum control fed, drum, cap screw, blade, and spare tire mount. **Page 134-135** The following parts are listed in a catalog or inventory: * Wheel chocks and bolt-on chock holders (kit) * Rubber wheel chocks with metal hairpin handle * Steel wheel chock * U-bolt for holding wheel chock * Spring snap (used to secure something) **Page 136-138** The following parts are listed in a catalog or inventory: * Hydraulic pump drive kit for a 3.0L GM gasoline engine * Auxiliary belt drive kit for the hydraulic pump * Bracket and sheaves for the auxiliary belt drive * Fuel system assembly (diesel and gasoline) with various components **Page 139-142** The following parts are listed in a catalog or inventory: * Fuel tank assemblies (18.0 gal, triangular shape) * Hydraulic valve and relief valve kits * Hydraulic valve components (spools, etc.) * Electro hydraulic valve kit (feed control) Note: I removed all the part numbers, descriptions, and other technical information to provide a general paraphrased version of the text. Let me know if you'd like me to include more details! **PARTS LIST** Identify the manufacturer as Parker or Cross Fluid Power for valves manufactured by them. Refer to this page (Page 1) for valves made by Parker. | Quantity | Part Number | Description | | --- | --- | --- | | - | 970256923 | Hydraulic Valve, Electro Hydraulic, Manifold, 3000 PSI, with System Relief | | - | 970301037 | ... | **Note:** Ensure the correct manufacturer is identified as either Parker or Cross Fluid Power for valves manufactured by them.